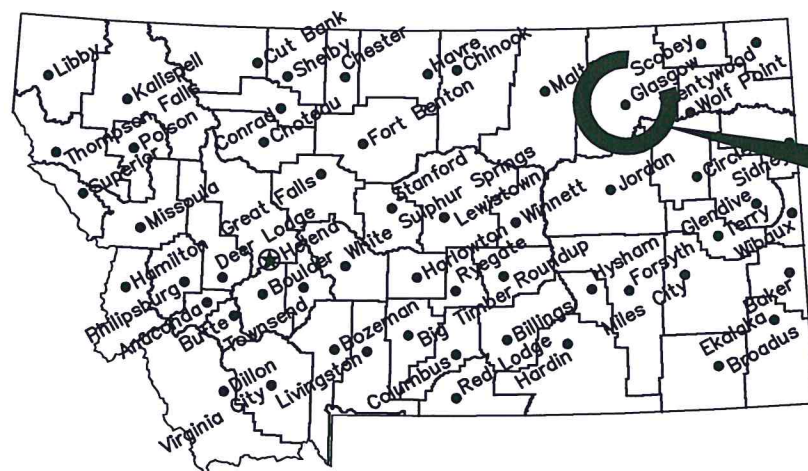


MONTANA FISH, WILDLIFE & PARKS

Stevens Slough Water Control Structure Repair at Tampico Conservation Easement

near Glasgow, MT

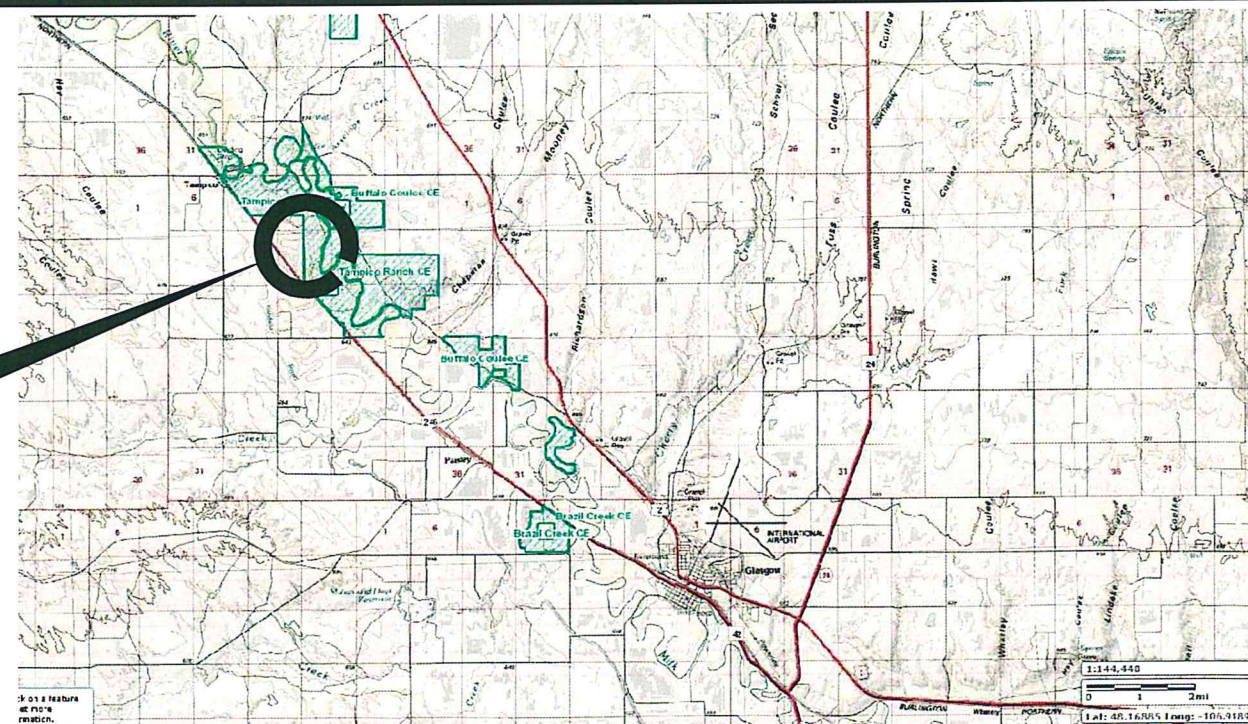
#7155102



Location Map

No Scale

**Project
Location**



Vicinity Map

No Scale

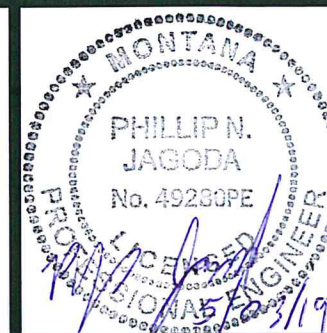
MONTANA FISH, WILDLIFE AND PARKS
DESIGN AND CONSTRUCTION

MAILING ADDRESS: PO BOX 200701
HELENA, MT 59620-0701
TEL 406.841.4000
FAX 406.841.4004
fw.p.mt.gov/Doing Business/Design&Construction

PHYSICAL ADDRESS: 1522 9th AVENUE
HELENA, MT 59601

DRAWING INDEX

Sheet Number	Sheet Title
1	COVER SHEET
2	PLAN & PROFILE
3	DETAILS



P. Jagoda 5/01/2019
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P. Jagoda 5/01/2019
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APPROVED BY: DATE:
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MONTANA FISH,
WILDLIFE & PARKS

Cover Sheet
Stevens Slough Water Control Structure Repair

SHEET: 1
of 3

LEGEND

EXISTING FEATURES

CONTROL POINT

EX. CONTOUR

TREE

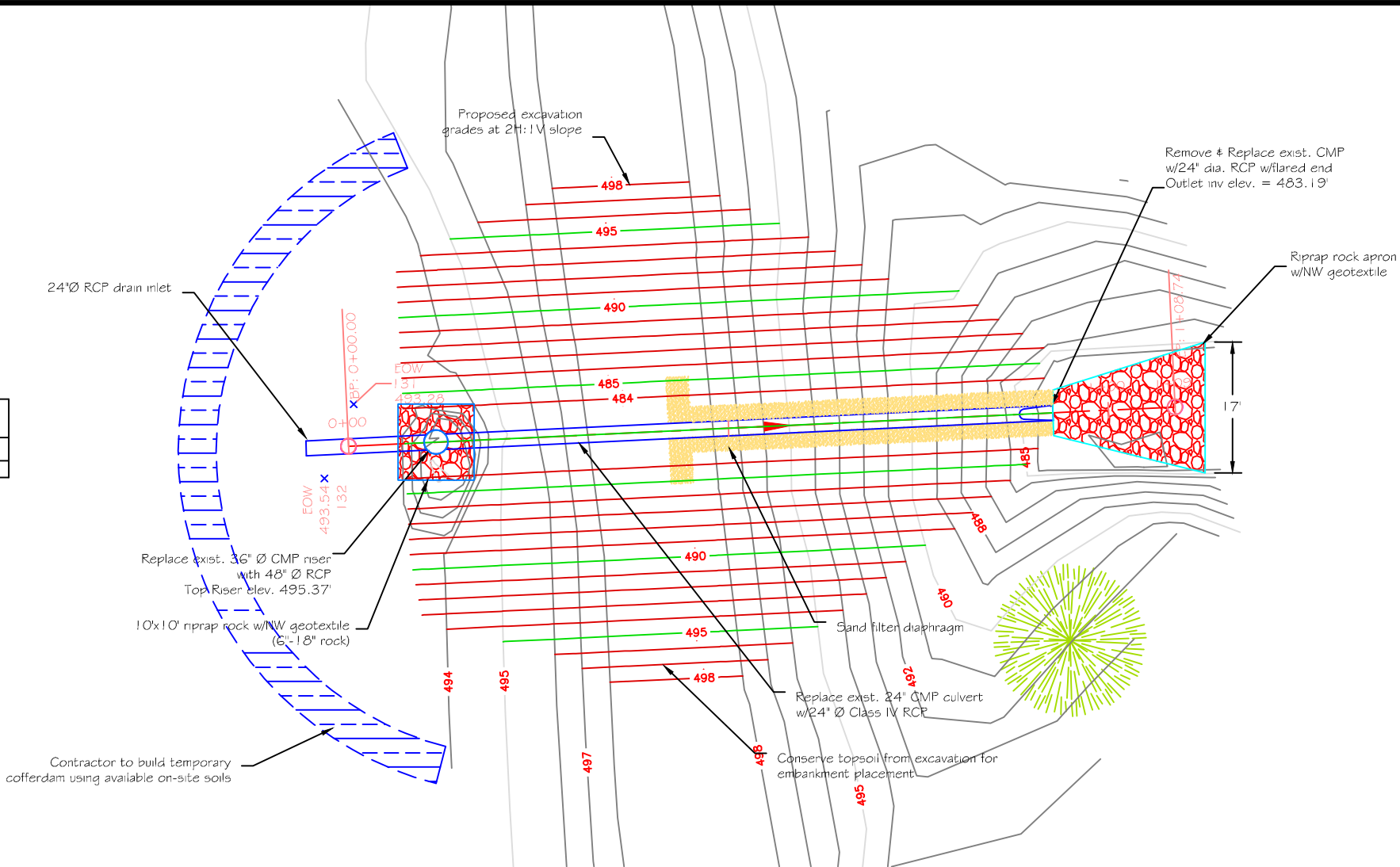
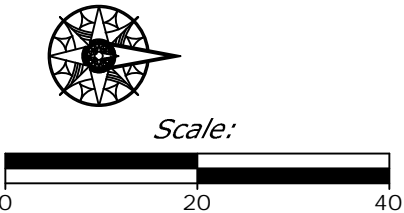
PROPOSED FEATURES

PROP. CONTOUR

SAND FILTER DIAPHRAGM

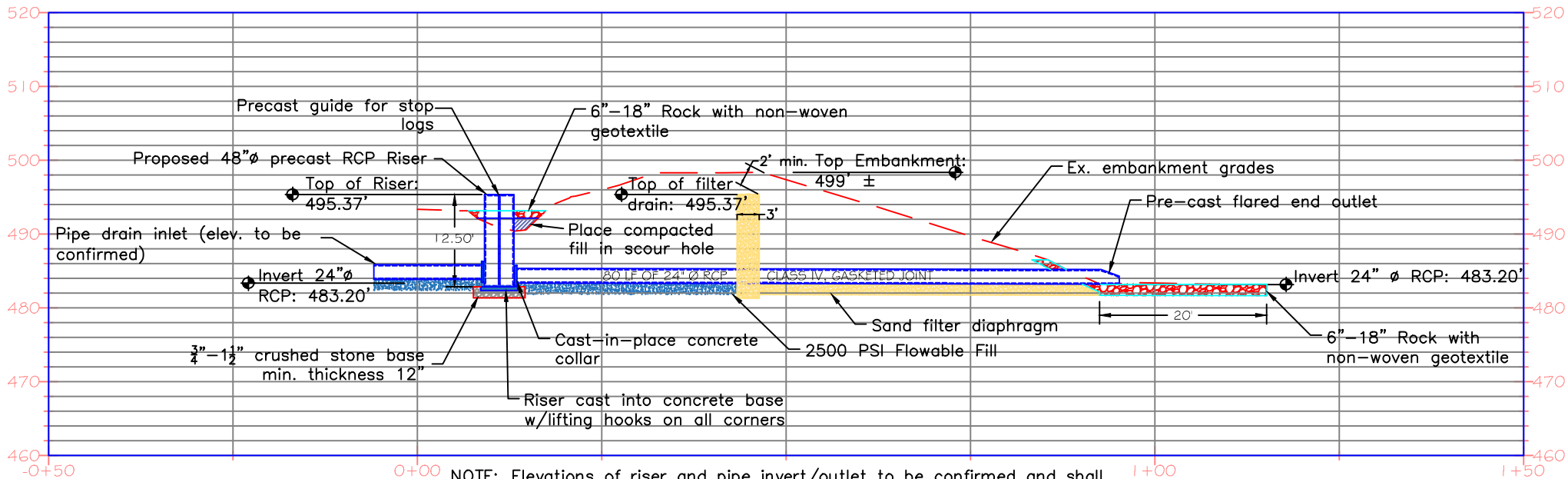
RIP-RAP

Desc.	Northing	Easting	Elev.
CP1	5000.0000	5000.0000	500.00
CP2	5030.4913	5200.3426	499.08



- NOTES:
- ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH "MONTANA PUBLIC WORKS SPECIFICATIONS", SIXTH EDITION (MPW), AND THE PROJECT SPECIFIC TECHNICAL SPECIFICATIONS.
 - BEFORE DIGGING, CALL 811 FOR LOCATION OF EXISTING UTILITIES. ANY UTILITIES DEPICTED ON THESE PLANS ARE IN ACCORDANCE WITH THEIR ACHIEVED "QUALITY LEVELS" AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38, "STANDARD FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
 - CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PERFORM ALL EXCAVATIONS IN ACCORDANCE WITH OSHA STANDARDS AND APPLICABLE REGULATIONS.
 - CONTRACTOR WILL NEED TO CONSTRUCT TEMPORARY SOIL COFFERDAM TO ISOLATE WORK. ALL DEWATERING SHALL BE COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATIONS AND EROSION BMPS SHALL BE INSTALLED AS NEEDED OR DIRECTED BY OWNER OR ENGINEER.

SCALE: 1":20' Vertical
1":20' Horiz.



NOTE: Elevations of riser and pipe invert/outlet to be confirmed and shall be matched to meet existing. Elevations shown on this plan may vary slightly to meet field conditions.

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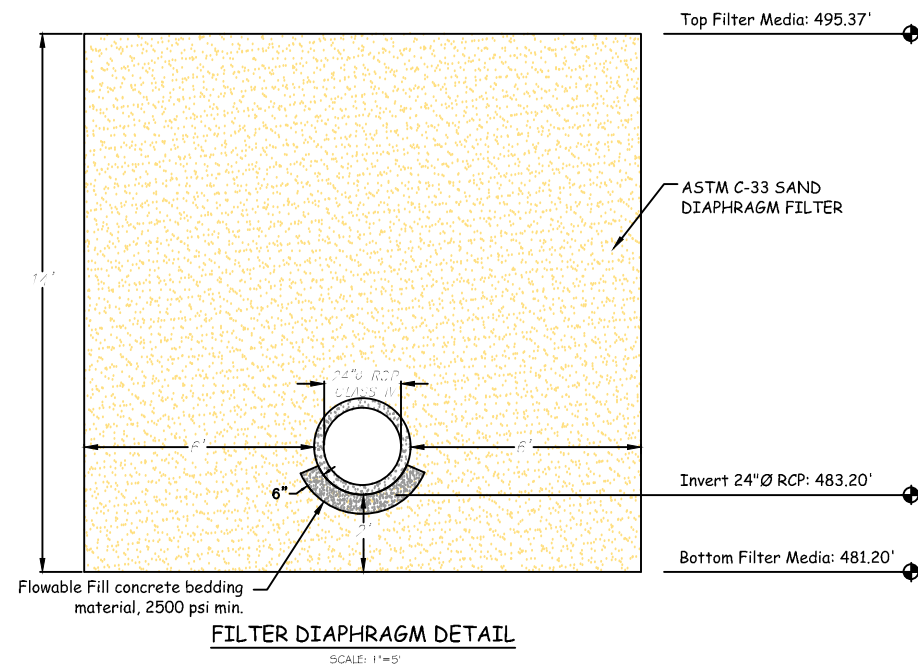
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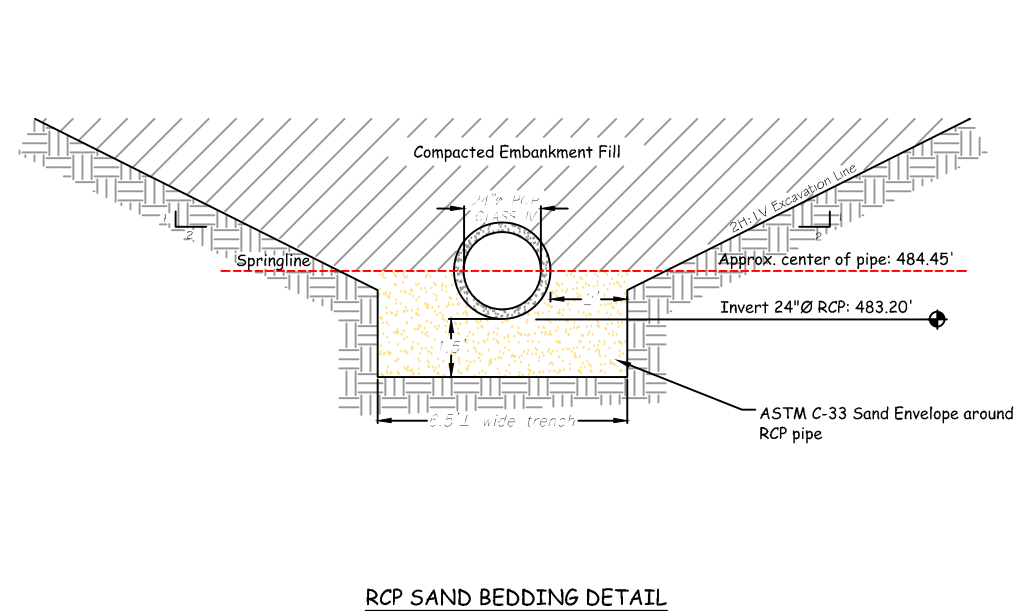
MONTANA FISH,
WILDLIFE & PARKS

Plan and Profile
Stevens Slough Water Control Structure Repair

SHEET: 2
of 3

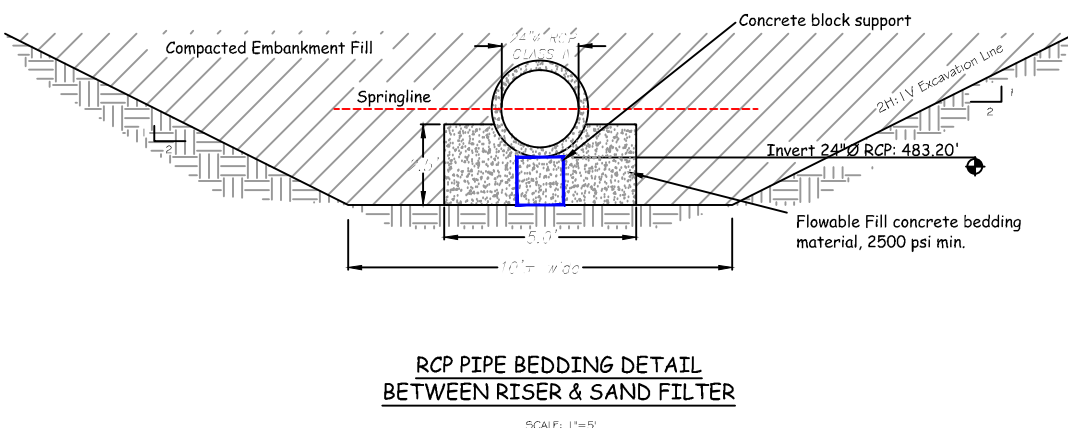


NOTES:
1. Sand shall be installed in 8-inch lifts and machine compacted according to specifications.

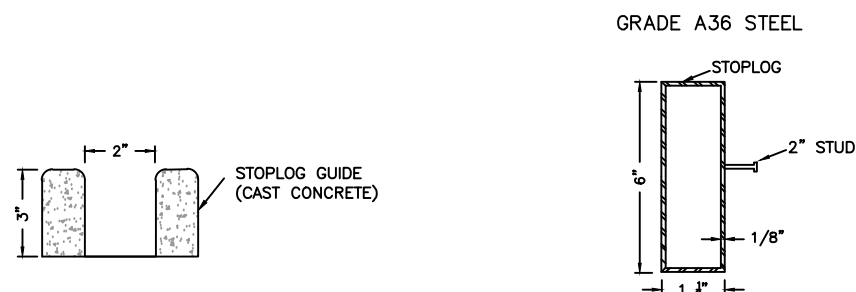


NOTES:
1. Compaction requirements shall be in accordance with method specifications included in the project manual.

- NOTES:
1. THE 48"Ø REINFORCED CONCRETE RISER SHALL BE GASKETED JOINT. THE BOTTOM BASE SHALL BE MONOLITHIC AND A CIRCULAR KNOCK-OUT FOR THE 24"Ø RCP SHALL BE PRE-CAST BY THE SUPPLIER. THE CONTRACTOR SHALL POUR A CONCRETE COLLAR AROUND THE CIRCULAR KNOCK-OUT AND THE 24"Ø RCP IN THE RISER 1FT. THICK AND 1 FT. BEYOND OUTSIDE DIA. OF THE RCP.
 2. FLOWABLE FILL (2500 PSI) SHALL BE USED FOR PIPE BEDDING AS DETAILED. CONTRACTOR WILL NEED TO PLACE RCP ON BLOCKS OR OTHER APPROVED SUPPORTS TO ACHIEVE PROPER INSTALLATION OF FLOWABLE FILL. A CONCRETE VIBRATOR WILL BE REQUIRED TO ENSURE ALL VOIDS HAVE BEEN FILLED. FLOWABLE FILL CONCRETE MUST BE PROPERLY CURED BEFORE BACKFILLING.
 3. COMPACTION OF EMBANKMENT FILL AND SAND FILTER DIAPHRAGM WILL BE IN ACCORDANCE WITH METHOD SPECIFICATIONS INCLUDED IN PROJECT MANUAL TECHNICAL SPECS. IF BACKFILL COMPACTION METHODS DO NOT MEET REQUIREMENTS OR SOIL DOES NOT EXHIBIT PROPER COMPACTION, CONTRACTOR WILL BE REQUIRED TO COMPLETE PROCTOR TESTING OF EX. SOILS & PERFORM FIELD DENSITY TESTING AT CONTRACTOR'S EXPENSE.

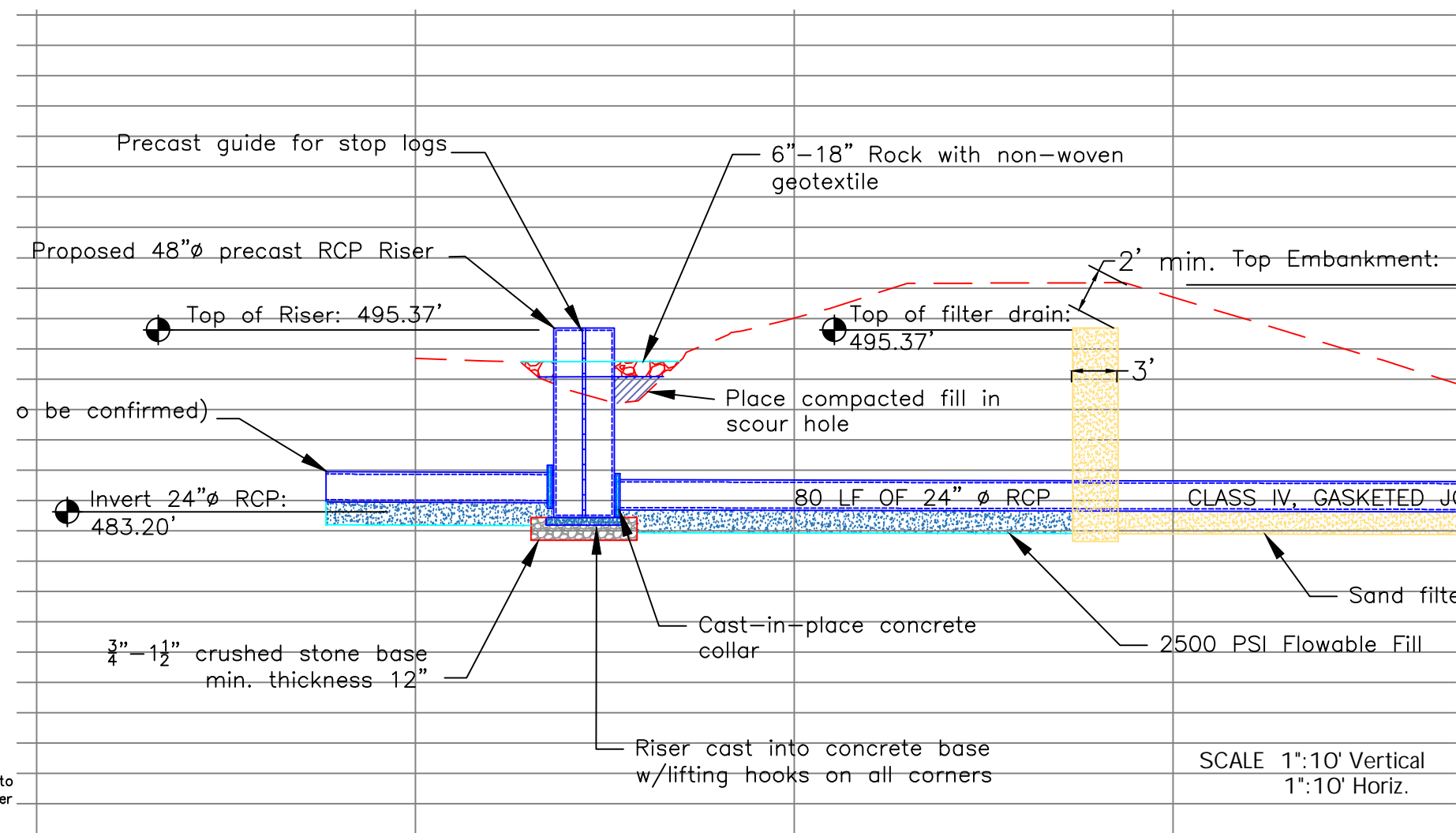


NOTES:
1. Compaction requirements shall be in accordance with method specifications included in the project manual.



Notes: The stoplog guide shall be constructed of formed concrete and installed by the pre-cast supplier. The guide shall provide for smooth install/removal of stoplogs.

Notes: Bottom four (4) stop logs shall be steel according to this detail. Remainder of stop logs shall be wooden 2x lumber cut to fit w/steel removal studs.



P. Jagoda
DRAWN BY:
P. Jagoda
CHECKED BY:

5/01/2019
DATE:
5/01/2019
DATE:

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**MONTANA FISH,
WILDLIFE & PARKS**

121

Detail Sheet
Stevens Slough Water Control Structure Repair

SHEET: 3 of 3